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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/768,951	01/29/2004	Nalam Madhusudhana Rao	71914/JPW/AG	7180
John P. White Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036			EXAMINER	
			SAIDHA, TEKCHAND	
			ART UNIT	PAPER NUMBER
,			1652	
	•			<u> </u>
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/768,951	RAO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tekchand Saidha	1652	
The MAILING DATE of this communication a	ppears on the cover sheet with	the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION OF THIS COMMUNICA	ATION.  by be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).	
Status		•	
1)⊠ Responsive to communication(s) filed on 18	Sentember 2006		
	nis action is non-final.		
3) Since this application is in condition for allow	•	s, prosecution as to the merits is	
closed in accordance with the practice unde	•	•	
Disposition of Claims			
4)⊠ Claim(s) <u>1-51</u> is/are pending in the application	าท		
4a) Of the above claim(s) <u>18-51</u> is/are withdr		\	
5) Claim(s) is/are allowed.	•		
6)⊠ Claim(s) <u>1-17</u> is/are rejected.	•		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	/or election requirement.	•	
Application Papers			
9) The specification is objected to by the Exami	ner		
10) ☐ The drawing(s) filed on 29 January 2004 is/a		ected to by the Examiner	
Applicant may not request that any objection to the	·- · ·- ·	•	
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume		olication No	
3. Copies of the certified copies of the pr	iority documents have been re	eceived in this National Stage	
application from the International Bure	` ` ' ' '		
* See the attached detailed Office action for a li	st of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Sur		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		Mail Date rmal Patent Application	
Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·	

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#### DETAILED ACTION

#### 1. Election/Restriction

Applicant's election with traverse of Group I (claims 1-17 & 31-34) in reply filed 9/18/2006 is acknowledged.

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- 2. Claims 31-34 belong to group II (claim 31 depends upon claim 18 of Group II) and was inadvertently listed in Group I. This is corrected as follows.
  - I. Claims 1-17, drawn to lipase variants (not lipase gene variant, because the sequences of SEQ ID Nos. 2-6 amino acid sequences and are therefore lipase variants not 'lipase gene variants as claimed'; claim amendment is suggested), classified in class 435, subclass 198.
  - II. Claims 18-51, drawn to expression vector or host cell comprising DNA encoding lipase variants (is the suggested language for these claims), classified in class 435, subclass 252.3.
- The traversal is on the ground(s) that Group II claims, 3. drawn to gene encoding a lipase and host cell and protein lipase variants of SEQ ID Nos. 2-6 of Group I, are not independent or distinct and would not be undue burden to the Examiner to examine both groups together. This is not found persuasive because depending upon the restricted group (I or II) being examined, additional classes/subclasses have to be searched. For example, Group II claims, drawn to gene encoding the lipase variants, host, will involve searching for additional class 536 & subclass 23.2 for DNA encoding the enzyme, and class 435, subclass 252.3 for host cell and class 435, subclass 320.1 for vector. The class/subclass of Group I & II do not overlap, and the searches are not coextensive, searching for group I does not always gather art for group II as additional classes need to be searched as explained above. In addition all the 5 sequences of SEQ ID Nos. 2-6 will have to be searched from all commercial and US Patent

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data bases. This additional searching as explained above would therefore involve undue burden to the Examiner. The requirement is still deemed proper but not made FINAL in view of the revised restriction requirement.

## 4. Claims withdrawn:

Claims 18-51 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Claims 1-17 are under consideration in this Office Action.

## 6. Priority

Acknowledgment is made of applicants' claim for priority based on an application filed in India on 1.30.2003.

## 7. Drawings

Drawings filed 1/29/2004 are acceptable for examination purposes.

## 8. Sequence Rules

Applicants' submit a new CRF copy and paper copy of the Sequence Listing new sequence listing which are in compliance with the requirements of 37 CFR 1.821 through 1.825. CRF copy and paper copy of the Sequence Listing new sequence listing are made of record.

### 9. Claim Rejections - 35 USC § 112 (second paragraph)

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-17 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claims 1-17 recite 'lipase gene variants having SEQ ID NO: 2.....SEQ ID NO: 6....'. However, SEQ ID Nos. 2 through 6 are lipase polypeptide variants..... The claims are indefinite for this reason. Amending the claims to recite 'lipase variants' or 'lipase polypeptide variants', will overcome this rejection.

10. Claims 4-5 recites the limitation "wherein  $T_{1/2}$ " in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Amending claim 4, for example, to read "Novel variants as claimed in claim 1, wherein said variants have  $T_{1/2}$  value in the range of 6 to 677, is suggested.

Claim 5, may be similarly amended.

11. Claims 6-7 recites the limitation "wherein Km value" in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Amending claim 6, for example, to read "Novel variants as claimed in claim 1, wherein said variants have Km value in the range of 0.50 to 2.5 mM.

Claim 7, may be similarly amended.

12. Claims 8-11 & 13-15 - similarly, as in paragraphs 10 & 11, recite the limitations 'Kcat', Kcat/Km, 'organic solvent' or 'residual activity' in claim 1 or 4, and for which there is insufficient antecedent basis.

Claims 4-11 & 13-15 are therefore rejected for lack of antecedent basis in the claim.

13. Claim 17 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 16. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the

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other as being a substantial duplicate of the allowed claim. See MPEP  $\S$  706.03(k).

- 14. No claim is allowed. The claims are, however, free of prior art.
- 15. Since there are several pending issues and the claims require a thorough overall by way of amendments to the claims, to also allow the Applicants to respond to the revised restriction requirement, and also since the Applicants are overseas, an attempt was not made to contact Applicants' representative by telephone to indicate allowable subject matter.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tekchand Saidha whose telephone number is (571) 272 0940. The examiner can normally be reached on 8.30 am 5.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on (571) 272 0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tekchand Saidha

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February 15, 2007